Shmuel Oren

[Home] [Publications] [Vita] [Courses] [Doctoral Students and Theses] [Lectures and Seminars] [Links] [Travel Album]

BEST AVAILABLE C

Publications download list

I. REFEREED PUBLICATIONS

A. Archival Journals:

- 1. Oren, Shmuel S. "Self-Scaling Variable Metric Algorithms Without Line-Search for Unconstrained Minimization," Math Comp., V. 27 (1973), pp. 885-973.
- Oren, Shmuel S. and David G. Luenberger "Self-Scaling Variable Metric (SSVM) Algorithms: Part I: Criteria and Sufficient Conditions for Scaling a Class of Algorithms," Management Science, V. 20 (1974), pp. 845-862
- 3. Oren, Shmuel S. "Self-Scaling Variable Metric (SSVM) Algorithms: Part II: Implementation and Experiments Management Science, V. 20 (1974), pp. 863-874.
- 4. Oren, Shmuel S. "On the Selection of Parameters in Self-Scaling Variable Metric Algorithms," Mathematical Programming, V. 7 (1974), pp. 351-367.
- 5. Oren, Shmuel S. "A Mathematical Theory of Man-Machine Text Editing," IEEE Transactions on Systems, M and Cybernetics, V. 4 (1974), pp. 258-267.
- 6. Oren, Shmuel S. "<u>A Mathematical Theory of Man-Machine Document Assembly</u>," IEEE Transactions on Systems, Man and Cybernetics, V. 5 (1975), pp. 520-526.
- 7. Oren, Shmuel S. and Michael H. Rothkopf, "Optimal Bidding in Sequential Auctions," Operations Research, 23, No. 6 (1975), pp. 1080-1090.
- 8. Oren, Shmuel S. and Emilio Spedicato, "Optimal Conditioning of Self-Scaling Variable Metric Algorithms," Mathematical Programming, V. 10, No. 1 (1976), pp. 70-90.
- 9. Oren, Shmuel S. "On Quasi-Newton and Pseudo-Newton Algorithms," J. Optimization Theory and Applications, V. 20, No. 2 (1976), pp. 155-170.
- 10. Rothkopf, Michael H. and Shmuel S. Oren, "<u>A Closure Approximation for the Nonstationary M/M/S Queue</u>, Management Science, V. 25, No. 6 (1979), pp. 522-534.
- 11. Morris, Peter A. and Shmuel S. Oren, "<u>Multi-Attribute Decision Making by Sequential Resource Allocation</u>," Operations Research, V. 8, No. 1 (1980), pp. 233-255.
- 12. Smith, Stephen A. and Shmuel S. Oren, "Reliability Growth of Repairable Systems," Naval Logistics Quarterly, V. 27, No. 4 (1980), pp. 539-547.
- 13. Oren, Shmuel S., Michael H. Rothkopf and Richard D. Smallwood, "<u>Evaluating a New Market: A Forecastin System for Nonimpact Computer Printers</u>," Interfaces, V. 10, No. 6 (1980), pp. 76-87.
- 14. Oren, Shmuel S., "<u>A Conjugate Directions Method for Subjective Assessment of Normal Distributions</u>," J. Optimization Theory and Applications, V. 33, No. 1 (1981), pp. 25-36.
- 15. Oren, Shmuel S. and Stephen A. Smith, "<u>Critical Mass and Tariff Structure in Electronic Communications Markets</u>," The Bell Journal of Economics, V. 12, No. 2 (1981), pp. 467-487.
- 16. Oren, Shmuel S., "Perspectives on Self-Scaling Variable Metric Algorithms," J. Optimization Theory and Applications, V. 37, No. 4 (1982), pp. 137-147.
- 17. Oren, Shmuel S., Stephen A. Smith and Robert B. Wilson, "<u>Linear Tariffs With Service Quality Discrimination</u>," The Bell Journal of Economics, V. 13, No. 2 (Autumn 1982), pp. 455-471.
- 18. Oren, Shmuel S., Stephen A. Smith and Robert B. Wilson, "Nonlinear Pricing in Markets with Interdependen Demand," Marketing Science, V. 1, No. 3 (1982), pp. 287-313.
- 19. Feinstein, Charles D. and Shmuel S. Oren, "Local Stability Properties of the Modified Hamiltonian Dynamic

- System, "Journal of Economics, Dynamics and Control, V. 6 (1983), pp. 387-397.
- 20. Oren, Shmuel S., Stephen A. Smith and Robert B. Wilson, "Competitive Nonlinear Tariffs," Journal of Economic Theory, V. 29, No. 1 (1983), pp. 49-71.
- 21. Oren, Shmuel S., Stephen A. Smith and Robert B. Wilson, "<u>Pricing a Product Line</u>," Journal of Business, V. 57, No. 1, Pt. 2 (1984), pp. S73-S99.
- 22. Oren, Shmuel S., "Planar Quasi-Newton Methods for Unconstrained Saddlepoint Problems," Journal of Optimization Theory and Applications, V. 43, No. 2 (1984), pp. 167-204.
- 23. Borison, Adam B., Peter A. Morris and Shmuel S. Oren, "A State-of-the-World Decomposition Approach to Dynamics and Uncertainty in Electric Utility Generation Expansion Planning," Operations Research, V. 32, N 5 (1984), pp. 1052-1068.
- 24. Oren, Shmuel S. and Michael H. Rothkopf, "<u>A Market Dynamics Model for New Industrial Products and its Applications</u>," Marketing Science, V. 3, No. 3 (1984), pp. 247-265.
- 25. Oren, Shmuel S., "<u>Discussant's Comments on: Pricing Research in Marketing the State of the Art</u>," Journal o Business, V. 57, No. 1, Pt. 2 (1984), pp. S61-S64.
- 26. Feinstein, Charles D. and Shmuel S. Oren, "<u>A Newton-Type Algorithm for the Solution of the Implicit Programming Problem</u>," Mathematics of Operations Research, V. 9, No. 4 (1985) pp. 336-351.
- 27. Feinstein, Charles D. and Shmuel S. Oren, "A 'Funnel' Turnpike Theorem for Optimal Growth Problems with Discounting," Journal of Economics, Dynamics and Control, V. 9, pp. 25-39 (1985).
- 28. Dhebar, Anirudh and Shmuel S. Oren, "Optimal Dynamic Pricing for Expanding Networks," Marketing Science, V. 4, No. 4 (1985) pp. 336-351.
- 29. Oren, Shmuel S., Stephen A. Smith and Robert B. Wilson, "<u>Capacity Pricing</u>," Econometrica, V. 53, No. 3, (1985) pp. 545-567.
- 30. Oren, Shmuel S. and Stephen G. Powell, "Optimal Supply of a Depletable Resource with Backstop Technolog Heals Theorem Revisited," Operations Research, V. 33, No. 2 (1985), pp. 277-292.
- 31. Oren, Shmuel S. and Shao Hong Wan, "Optimal Strategic Petroleum Reserve Policies: A Steady State Analysis," Management Science, V. 32, No. 1, (1986) pp. 14-29.
- 32. Dhebar, Anirudh and Shmuel S. Oren, "<u>Dynamic Nonlinear Pricing in Markets with Interdependent Demand</u> Operations Research, V. 34, No. 3, (1986) pp. 384-394.
- 33. Chao, Hung Po, Shmuel S. Oren, Stephen A. Smith and Robert B. Wilson, "Multi-Level Demand Subscription Pricing for Electric Power," Energy Economics, (1986) pp. 199-217.
- 34. Arbel, Ami and Shmuel S. Oren, "Generating Search Directions in Multi-objective Linear Programming using the Analytical Hierarchy Process," Socio-Economic Planning Sciences, V. 30, No. 6, (1986) pp. 369-373.
- 35. Oren, Shmuel S., Stephen A. Smith and Robert B. Wilson, "Multi-product Pricing for Electric Power," Energ Economics, V. 9, No. 2 (1987), pp. 104-114.
- 36. Chao, Hung Po, Shmuel S. Oren, Stephen A. Smith and Robert B. Wilson, "Priority Service: Market Structur and Competition," The Energy Journal, Special Issue on Electricity Reliability, V. 9 (1988), pp. 77-104.
- 37. Schwartz, Rick G. and Shmuel S. Oren, "<u>Using Analytic Hierarchies for Consumer Research and Market Modeling</u>," Mathematical Computer Modeling, V. 11 (1988), pp. 266-271.
- 38. Oren, Shmuel S. and Rick G. Schwartz, "<u>Diffusion of New Products in Risk Sensitive Markets Modeling</u>," Journal of Forecasting, V. 7, No 4 (1988), pp. 273-287.
- 39. Powell, Stephen G. and Shmuel S. Oren, "<u>The Transition to Nondepletable Energy: Social Planning and Mar Models of Capacity Expansion</u>," Operations Research, V. 37, No. 3 (1989), pp. 373-383.
- 40. Oren, Shmuel S. and Joseph A. Doucet, "<u>Interruption Insurance for Generation and Distribution of Electric Power</u>," Journal of Regulatory Economics, V. 2 (1990), pp. 5-19.
- 41. Oren, Shmuel S. and Stephen A. Smith, "Discussion of Paper by Rau and Hegazy," IEEE Transaction on Pow Systems, V. 6, No. 2, (May 1991).
- 42. Oren, Shmuel S. and Stephen A. Smith, "<u>Design and Management of Curtailable Electricity Service to Reduc Annual Peaks</u>," Operations Research, V. 40, No. 2 (1992), pp. 213-238. Also in Service Opportunities for Electric Utilities: Proceedings of the EPRI/UERG Symposium, Held at UC Berkeley, September 1990. (Oren and Smith Ed.), Kluwer Publishing Co., (1993).
- 43. Kamien, Morton I., Shmuel S. Oren and Yair Tauman, "Licensing of Cost Reducing Innovation," Journal of Mathematical Economics, V. 21 (1992), pp. 483-508.
- 44. Doucet, Joseph A. and Shmuel S. Oren, "Onsite Backup Generation and Interruption Insurance for Electricity Distribution," Energy Economics, V. 12, No. 4 (1992), pp. 79-93.

h

- 45. Strauss, Todd P. and Shmuel S. Oren, "<u>Priority Pricing of Interruptible Electric Power With an Early Notification Option</u>," The Energy Journal, V. 14, No 2 (1993), pp.175-195.
- 46. Arbel, Ami and Shmuel S. Oren, "Generating Interior Search Directions for Multiobjective Linear Programming," Journal of Multi-Criteria Decision Analysis, V. 2 (1993), pp. 73-86.
- 47. Bushnell, James B. and Shmuel S. Oren, "Bidder Cost Revelation in Electric Power Auctions," Journal of Regulatory Economics, V. 6, No. 1 (1994), pp. 5-26.
- 48. Strauss, Todd P. and Shmuel S. Oren., "Priority Ordering in Interruptible Electric Power Service with Irreversible Early Notification," Probability in Engineering and Information Sciences, V 8, (1994) pp. 287-29
- 49. Bushnell, James B. and Shmuel S. Oren, "<u>Incentive Effects of Environmental Adders in Electric Power Auctions</u>," Energy Journal, V. 15, No. 3 (1994) pp. 55-73.
- 50. Braden, David J. and Shmuel S. Oren, "Nonlinear Pricing to Produce Information," Marketing Science, Vol. No. 3 (1994) pp. 310-326.
- 51. Svoboda, Alva J. and Shmuel S. Oren, "<u>Integrating Price-based Resources in Short-term Scheduling of Electr Power Systems</u>," IEEE Transaction on Energy Conversion, Vol. 9, No. 4, (1994) pp. 760-769.
- 52. Friedman, Eric J. and Shmuel S. Oren, "<u>The Complexity of Resource Allocation and Price Mechanisms under Bounded Rationality</u>," Economic Theory, Vol. 6, (1995) pp. 225-250.
- 53. Min, K. Jo and Shmuel S. Oren, "<u>Economic Determination of Spec. Levels and Allocation Priorities of Semiconductor Products</u>," IIE Transactions, Vol 27, (1995) pp. 321-331.
- 54. Oren, Shmuel S., Pablo T. Spiller, Pravin Varaiya and Felix Wu, "Nodal Prices and Transmission Rights: A Critical Appraisal," Electricity Journal, Vol. 8, No. 3, (1995) pp. 24-35.
- 55. Bushnell, James B. and Shmuel S. Oren, "<u>Internal Auctions for Efficient Sourcing of Intermediate Products</u>," Journal of Operations Management, Vol. 12 No. 3-4 (1995) pp. 311-320.
- 56. Arbel Ami and Shmuel S. Oren, "<u>Using Approximate Gradients in Developing an Interactive Interior Primal-Dual Multiobjective Linear Programming Algorithm</u>", European Journal of Operational Research Vol. 89 (19 pp. 202-211
- 57. Wu, Felix, Pravin Variya, Pablo T. Spiller and Shmuel S. Oren, "<u>Folk Theorems on Transmission Open Acce Proofs and Counter Examples</u>", Journal of Regulatory Economics, Vol. 10, (1996), pp. 5-23
- 58. Oren Shmuel S., "<u>Economic Inefficiency of Passive Transmission Rights in Congested Electricity Systems wi</u>
 <u>Competitive Generation</u>", Energy Journal, Vol. 18, No.1 (1997) pp. 63-83.
- 59. Johnson B. Raymond, Shmuel S. Oren, Alva J. Svoboda, "<u>Equity and Efficiency of Unit Commitment in Competitive Electricity Markets</u>," Utilities Policy, Vol. 6. No. 1, (1997) pp.9-19
- 60. Tseng Chung-Li, Shmuel S. Oren, Alva J. Svoboda, Raymond B. Johnson, "<u>A Unit Decommitment Method in Power System Scheduling</u>," Electrical Power & Energy Systems, Vol. 19, No. 6, (1997) pp. 357-365
- 61. Oren Shmuel S. "<u>Passive Transmission Rights Will Not Do The Job</u>", Electricity Journal, Vol. 10, No. 5, (Jun 1997) pp. 22-33.
- 62. Bushnell James B. and Shmuel S. Oren, "<u>Transmission Pricing in California's Proposed Electricity Market</u>", Utilities Policy, Vol. 6, No. 3 (1997) pp. 237-244.
- 63. Tseng Chung-Li, Shmuel S. Oren, Alva J. Svoboda and Raymond B. Johnson, "Price Based Adaptive Spinnin Reserves Requirements in Power System Scheduling", Electrical Power and Energy Systems, 21 (1999), pp. 137-145
- 64. Tseng Chung-Li, Shmuel S. Oren, Carol S. Chang, Chao-an Li, Alva J. Svoboda and Raymond B. Johnson, "A Transmission-Constrained Unit Commitment Method in Power System Scheduling ", Decision Support System 24 (1999), pp. 297-310 also in Proceeding of the 31st Hawaii International Conference on Systems Sciences, Best Paper Award Winner (January 1998)
- 65. Elmaghrabi Wedad and Shmuel S. Oren, "<u>Efficiency of Multi-Unit Electricity Auctions</u>", Energy Journal, 20 (1999) 4, pp. 89-115. Also in Proceedings of the IAEE Conference, San Francisco, California, (September 199 pp. 458-462.
- 66. Ugarte Armando and Shmuel Oren "Coordination of Internal Supply Chains in Vertically Integrated High-tec Manufacturing Organizations (HTMOs) "International Journal of Production V 67 (2000) pp. 235-252
- 67. Tseng Chung-Li, Chao-an Li, and Shmuel S. Oren, "Solving Unit Commitment by a Unit decommitment Method", Journal of Optimization Theory and vol. 105, no. 3, June 2000
- 68. Oren Shmuel S., "<u>Integrating real and financial options in demand-side electricity contracts</u>", Decision Suppo Systems, V 30, (2001) 279-288 Also in Proceedings of the 32nd Hawaii International Conference on Systems Sciences, Maui, Hawaii (January, 1999)

- 69. Chao, Hung-po, Stephen Peck, Snmuel Oren and Robert Wilson, "Flow-based Transmission Rights and Congestion Management", Electricity Journal, (October, 2000)
- 70. Deng, Shijie and Shmuel S. Oren. "Priority Network Access Pricing for Electric Power", Journal of Regulato Economics, Vol 19, No. 3, (2001) 239-270.
- 71. Kamat, Rajnish and Shmuel S. Oren. "Exotic Options for Interruptible Electricity Supply Contracts," Operations Research, Vol. 50, No. 5; 835-850, 2002
- 72. Kamat, Rajnish and Shmuel S. Oren. "Rational Buyer Meets Rational Seller: Reserves Markets Equilibrium Under Alternative Auction Design, Journal of Regulatory Economics (July, 2001).
- 73. Oren, Shmuel S. and Andrew M. Ross, "<u>Economic Congestion Relief Across Multiple Regions Requires</u>
 <u>Tradable Physical Flow-Gate Rights</u>", IEEE Transactions on Power Systems, Vol. 17, No 1, pp 159-165 (200
- 74. Deng, Shijie and Shmuel Oren S., "Incorporating Operational Characteristics and Startup Costs in Option-Bas Valuation of Power Generation Capacity", Probability in Engineering and Information Sciences, Vol. 17, No. (2003) pp. 155-182.
- 75. Adler Ilan, Shmuel Oren and Sheldon Ross, "The Coupon Collector's Problem Revisited", Journal of Applied Probability, (Accepted for publication January, 2003)
- 76. Barmack Matthew, Peter Griffes, Edward Kahn, and Shmuel Oren, "Performance Incentives for Transmission The Electricity Journal, (April 2003) pp. 9-22.
- 77. Kamat, Rajnish and Shmuel S. Oren, "<u>Two Settlements Systems for Electricity Markets under Network Uncertainty and Market Power</u>", Journal of Regulatory Economics (accepted for publication August 2003)

B. Conference and Symposium Proceedings and Book Chapters:

- 78. Oren, Shmuel S. and David G. Luenberger, "The Self-Scaling Variable Metric Algorithm," Proceeding of the 5 Hawaii Conference on System Science (January 1972).
- 79. Oren, Shmuel S., "Self-Scaling Variable Metric Algorithms without Line-Search for Unconstrained Minimization," Proceedings of the Joint Automatic Control Conference, Columbus, Ohio (June 1973).
- 80. Oren, Shmuel S., "A Mathematical Model of Computer Assisted Document Creation," in Information Systems COIN IV, (J. Tou, ed.), Plenum Publishing Corp. (1974), pp. 387-401.
- 81. Oren, Shmuel S., "A Combined Variable Metric-Conjugate Gradient Algorithm for a Class of Large Scale Unconstrained Minimization Problems," in Optimization Techniques: Part 2 (J. Stoer, ed.), Springer-Verlag (1978), pp. 97-115.
- 82. Oren, Shmuel S., "Quasi-Newton Algorithms: Approaches and Motivations," Proceedings of the IEEE Conference on Decision and Control, San Diego, CA (Dec 1973).
- 83. Oren, Shmuel S. and Michael H. Rothkopf, "Optimal Bidding in Sequential Auctions," Proceedings of the IEE Conference on Decision and Control, Phoenix, AZ (November 1974).
- 84. Oren, Shmuel S., Michael H. Rothkopf and Richard D. Smallwood, "Evaluating a New Market: A Forecasting System for Nonimpact Computer Printers," Proceedings of the First ORSA/TIMS Special Interest Conference Market Measurement and Analysis, Stanford University (June 1980).
- 85. Oren, Shmuel S. and Stephen A. Smith, "Nonlinear Pricing and Network Externalities in Telecommunications Proceedings of the 6th International Conference on Computer Communications, London, U.K. (September 1982).
- 86. Chao, Hung Po, Shmuel S. Oren, Stephen A. Smith and Robert B. Wilson, "Priority Service: Managing Risk b Unbundling Electric Power Service," Proceedings of the XIII Energy Technology Conference, Washington, D.C., pp. 1610-1618 (March 1986).
- 87. Arbel, Ami and Shmuel S. Oren, "A Priority Based Interactive Multicriteria Optimization Algorithm," in Lectu Notes in Economics and Mathematical System Theory, Springer-Verlag, V. 285 (Part I) pp. 163-171, (1987) (Proceedings of the VII-th International Conference on Multiple Criteria Decision Making held in Kyoto, Japa Aug. 1986).
- 88. Schwartz, Rick G., Shmuel S. Oren, Charles A. Dennis and Robert F. Debusk, "Measuring and Responding to Consumer Preferences for Medical Products and Services," Proceedings of the 1987 Annual Healthcare Syste Conference held in Las Vegas, Nevada (February 1987). (Best paper award).
- 89. Schwartz, Rick G. and Shmuel S. Oren, "Using Analytic Hierarchies for Consumer Research and Market Modeling," in Proceedings of the Sixth Int'l Conference on Mathematical Modeling in Science and Technolog St. Louis, MO., pp. 229-240, (August 1987).

- 90. Min, K. Jo and Shmuel S. Oren, "Optimal Pricing of Allocation Priority and Spec. Level With Multiple Customer Groups," Proceedings of the 1993 NSF Design and Manufacturing Systems Conference, V. 2 (1993 pp. 1799-1808.
- 91. Bushnell, James B. and Shmuel S. Oren, "Two-dimensional Auctions for Efficient Franchising of Independent Power Generation" Proceedings of the 29th Annual Conference of the Operational Research Society of New Zealand, Auckland University, New Zealand, (August 1993).
- 92. Min, K. Jo and Shmuel S. Oren, "Optimal Pricing of Allocation Priority and Spec. Level With Multiple Customer Groups," Proceedings of the 1994 NSF Design and Manufacturing Systems Conference, V. 3 (1994 pp. 351-352.
- 93. Oren Shmuel S. "The Role of Financial Instruments in a Competitive Electricity Market" in Proceedings of t 1996 EPRI Conference on Innovative Approaches to Electricity Pricing, (March 1996) pp. 7:1-15.
- 94. Oren Shmuel S., "Economic Foundation of Unbundling and Product Differentiation with Application to Electr Power" in Proceedings of the NSF Conference on Unbundled Power Quality Services in the Electricity Power Industry, Key-west, Florida, (November 1997) pp. 138-143
- 95. Oren Shmuel S., Alva J. Svoboda and Raymond B. Johnson, "Volatility of Unit Commitment in Competitive Electricity Markets," in Proceedings of the 30th Hawaii International Conference on Systems Sciences, (Janua 1997) pp. 594-601
- 96. Oren Shmuel S. and Dennis Ray, "Services in an Unbundled and Open Electric Services Market Place" In The Virtual Utility: Accounting, Technology & Competitive Aspects of the Emerging Industry, (S. Awerbach and Preston Ed.), Kluwer Academic Publishers (1997) pp. 249-274.
- 97. Deng, Shi-jie and Shmuel S. Oren, "Priority Network Access Pricing for Electric Power," In Proceedings of t Bulk Power Systems Dynamics and Control Conference IV - Restructuring, Santorini, Greece, August 24-28, (1998). Also in Proceedings of the POWER Conference, University of California Energy Institute, Berkeley, California (March, 1998)
- 98. Oren, Shmuel S. "<u>Transmission Pricing and Congestion Management: Efficiency, Simplicity and Open Acces</u> Proceedings of the EPRI Conference on Innovative Pricing, Washington DC, (June 17-19, 1998)
- 99. Oren Shmuel S. "Authority and Responsibility of The ISO: Objectives, Options and Tradeoffs", In Designing Competitive Electricity Markets, Chao and Huntington ed., Kluwer Academic Publishers, Boston. (1999).
- 100. Oren Shmuel S. Contributor to: "Unlocking the Benefits of Restructuring: A Blueprint for Transmission" by Shimon Awerbuch, Leonard Hyman and Andrew Vesey, Public Utilities Reports Inc., (Nov. 1999)
- 101. Oren Shmuel S., "<u>Capacity Payments and Supply Adequacy in Competitive Electricity Markets</u>" VII Symposium of Specialists in Electric Operational and Expansion Planning, Curitiba, Brazil, (May 21-26, 2000 [Presentation]
- 102. Oren Shmuel S., "Design of Ancillary Service Markets", Proceeding of the 34th Hawaii International Conference on Systems Sciences HICSS 34. Maui, Hawaii, January 5-8, 2001.
- 103. Kamat, Rajnish and Shmuel S. Oren, "Multi-Settlement Systems for Electricity Markets: Zonal Aggregation under Network Uncertainty and Market Power", Proceeding of the 35th Hawaii International Conference on Systems Sciences HICCS 35. Big Island, Hawaii, January 7-11, 2002.
- 104. Oren, Shmuel, George Gross and Fernando Alvarado, "Alternative Business Model for Transmission Investme and Operation", DOE National Transmission Grid Study Report, pp. C4-C34 (May, 2002)
- 105. Fernando and Shmuel Oren, "Transmission System Operations", DOE National Transmission Grid Study Rep pp. A1-A34, (May,2002)
- 106. Oren Shmuel S. and Andrew Ross, "Designs for Ramp-constrained Day-ahead auctions", Proceeding of the 36 Hawaii International Conference on Systems Sciences HICSS 36. Big Island, Hawaii, January 5-9, 2003.

C. Books

1. Service Opportunities for Electric Utilities: Creating Differentiated Products," Kluwer Academic Publishers, Boston (1993).

II. NON-REFEREED PUBLICATIONS

1. Oren, Shmuel S. "The Correspondence Principle in Viscoelastic Stress Analysis," M. Sc. Thesis, Dept. of

h e be ee e b h

- Materials Engineering, Technion University, Haifa, Israel (in Hebrew) (July 1969).
- Oren, Shmuel S. "Self-Scaling Variable Metric Algorithms for Unconstrained Minimization," Ph.D. Thesis, D of Engineering-Economics Systems, Stanford University, Stanford, CA (1972).
 - 3. Allan, Dan, Shmuel S. Oren et. al, "A Nationwide Communication System for the Hearing Impaired: Strategie Toward Commercial Implementation," Final Report, Project 3288, SRI International, Menlo Park, California (October 1981).
 - 4. Oren, Shmuel S., Stephen A. Smith and Robert B. Wilson, "Priority Service: Unbundling the Quality Attribute of Electric Power," EPRI Report EA-4871 (Nov. 1986).
 - 5. Oren, Shmuel S., Stephen A. Smith and Robert B. Wilson, "Selected Papers on Priority Service Methods," EP Report P-5350, (August 1987).
 - 6. Oren, Shmuel S., "Product Differentiation in Service Industries," working paper presented at the First Annual Conference on Pricing, New York, NY (December 1987)
 - 7. Oren, Shmuel S., Stephen A. Smith and Robert B. Wilson, "Service Design in The Electric Power Industry," EPRI Report P-6543, (1990).
 - 8. Letter to the Editor, Wall Street Journal, (April 21, 1997)
 - 9. Interview in "Electricity's Big Bang", Public Utilities Fortnightly, (January 1, 1998)
- 10. Shmuel Oren "It takes One Counterexample to Disprove a Theory", Electricity Journal, (10) pp. 95-98, (Octob 1997)
- 11. Oren, Shmuel S. "Review of MAE rules for the Brazilian wholesale electricity market", Report to ANEEL T Brazilian Electricity Regulatory Agency (June 15, 2000)
- 12. Wilson, Ami, J. Kahn and Shmuel Oren, "<u>Targeting Interventions to Prevent Human Immunodeficiency Virus</u> (HIV) in Injection drug Users (IDUs)", Working Paper, (August 2000)
- 13. Shmuel S. Oren, "Report to the Public Utility Commission of Texas on the ERCOT Protocols in Docket No. 23220", February 9, 2001
- 14. Oren Shmuel S. and Pablo Spiller, "<u>Wild Prices Out West: What Can Be Done</u>", Public Utilities Fortnightly, November 1, 2000, pp. 58-61.
- 15. Oren, Shmuel S, "<u>Market Based Risk Mitigation: Risk Management vs. Risk Avoidance</u>", Proceedings of a White House OSTP/NSF Workshop on Critical Infrastructure Interdependencies held in Washington DC, June 14-15, 2001.
- 16. J. Rabaey, E Arans, C. Dedespeil, A. Gadgill, D Masserschmidt, W. Nazaroff, K. Pister, S. Oren "Smart Energ Distribution and Consumption: Information Technology as an Enabling Force", CITRIS White Paper, Univers of California at Berkeley (May 2001)
- 17. Chao H., S. Oren, A Papaloxopolous, and R. Wilson, "An External Evaluation of Power Markets in Poland", EPRI, Palo Alto, CA: (December 2001), 1006547
- 18. Oren, Shmuel S. "The FTR vs. FGR Debate: Facts and Misconceptions", Comments to FERC in Docket RM0 12-000 (Standard Market Design) (April 2002)
- 19. C. Mensah-Bonsu and S. Oren, "California Electricity Market Crisis: Causes, Remedies, and Prevention", IEE Power Engineering Review, Vol 22, No. 8 (August 2002) pp. 4-5.
- 20. Oren, Shmuel S. "Comments on the FERC SMD NOPR", Comments in Docket RM01-12-000 (November 15, 2002)
- 21. Chao. H, R. Entriken, H. Huntington, S. Oren, A. Papaloxopolous, S. Wan and R. Wilson "Review of the Curr Status of Power Markets Reforms in the US and Europe, EPRI, Palo Alto, CA: (November, 2002). 1007332
- 22. Oren, Shmuel S. and Ramteen Sioshansi, "<u>Joint Energy and Reserves Auction with Opportunity Cost Paymen for Reserves</u>", Working Paper, (July 2003)
- 23. Oren Shmuel S., "Ensuring Generation Adequacy in Competitive Electricity Markets", Working Paper, (June 2003)
- 24. Siddiqui, Afzal S., Emily S. Bartholomew, Chris Marney and Shmuel S. Oren, "On the Efficiency of the New York Independent System Operator Market for Transmission Congestion Contracts", Working Paper, (April 3 2003)

Last updated September 12, 2003

Shmuel S. Oren - Publications

[Home] [Publications] [Vita] [Courses] [Doctoral Students and Theses] [Lectures and Seminars] [Links] [Travel Album]

Shmuel S. Oren Publications

I. REFEREED PUBLICATIONS

A. Archival Journals:

- 1. Oren, Shmuel S. "Self-Scaling Variable Metric Algorithms Without Line-Search for Unconstrained Minimization," *Math Comp.*, V. 27 (1973), pp. 885-973.
- 2. Oren, Shmuel S. and David G. Luenberger "Self-Scaling Variable Metric (SSVM) Algorithms: Part I: Criteria and Sufficient Conditions for Scaling a Class of Algorithms," *Management Science*, V. 20 (1974), pp. 845-862.
- 3. Oren, Shmuel S. "Self-Scaling Variable Metric (SSVM) Algorithms: Part II: Implementation and Experiments," *Management Science*, V. 20 (1974), pp. 863-874.
- 4. Oren, Shmuel S. "On the Selection of Parameters in Self-Scaling Variable Metric Algorithms," *Mathematical Programming*, V. 7 (1974), pp. 351-367.
- 5. Oren, Shmuel S. "A Mathematical Theory of Man Machine Text Editing," *IEEE Transactions on Systems*, Man and Cybernetics, V. 4 (1974), pp. 258-267.
- 6. Oren, Shmuel S. "A Mathematical Theory of Man Machine Document Assembly," *IEEE Transactions on Systems, Man and Cybernetics*, V. 5 (1975), pp. 520-526.
- 7. Oren, Shmuel S. and Michael H. Rothkopf, "Optimal Bidding in Sequential Auctions," *Operations Research*, V. 23, No. 6 (1975), pp. 1080-1090.
- 8. Oren, Shmuel S. and Emilio Spedicato, "Optimal Conditioning of Self-Scaling Variable Metric Algorithms," *Mathematical Programming*, V. 10, No. 1 (1976), pp. 70-90.
- 9. Oren, Shmuel S. "On Quasi-Newton and Pseudo-Newton Algorithms," *J. Optimization Theory and Applications*, V. 20, No. 2 (1976), pp. 155-170.
- 10. Rothkopf, Michael H. and Shmuel S. Oren, "A Closure Approximation for the Nonstationary M/M/S Queue," *Management Science*, V. 25, No. 6 (1979), pp. 522-534.
- 11. Morris, Peter A. and Shmuel S. Oren, "Multi-Attribute Decision Making by Sequential Resource Allocation," *Operations Research*, V. 8, No. 1 (1980), pp. 233-255.

- 12. Smith, Stephen A. and Shmuel S. Oren, "Reliability Growth of Repairable Systems," *Naval Logistics Quarterly*, V. 27, No. 4 (1980), pp. 539-547.
- 13. Oren, Shmuel S., Michael H. Rothkopf and Richard D. Smallwood, "Evaluating a New Market: A Forecasting System for Nonimpact Computer Printers, *Interfaces*, V. 10, No. 6 (1980), pp. 76-87.
- 14. Oren, Shmuel S., "A Conjugate Directions Method for Subjective Assessment of Normal Distributions," *J. Optimization Theory and Applications*, V. 33, No. 1 (1981), pp. 25-36.
- 15. Oren, Shmuel S. and Stephen A. Smith, "Critical Mass and Tariff Structure in Electronic Communications Markets," *The Bell Journal of Economics*, V. 12, No. 2 (1981), pp. 467-487.
- 16. Oren, Shmuel S., "Perspectives on Self-Scaling Variable Metric Algorithms," J. Optimization Theory and Applications, V. 37, No. 4 (1982), pp. 137-147.
- 17. Oren, Shmuel S., Stephen A. Smith and Robert B. Wilson, "Linear Tariffs With Service Quality Discrimination," *The Bell Journal of Economics*, V. 13, No. 2 (Autumn 1982), pp. 455-471.
- 18. Oren, Shmuel S., Stephen A. Smith and Robert B. Wilson, "Nonlinear Pricing in Markets with Interdependent Demand," *Marketing Science*, V. 1, No. 3 (1982), pp. 287-313.
- 19. Feinstein, Charles D. and Shmuel S. Oren, "Local Stability Properties of the Modified Hamiltonian Dynamic System," *Journal of Economics, Dynamics and Control*, V. 6 (1983), pp. 387-397.
- 20. Oren, Shmuel S., Stephen A. Smith and Robert B. Wilson, "Competitive Nonlinear Tariffs," *Journal of Economic Theory*, V. 29, No. 1 (1983), pp. 49-71.
- 21. Oren, Shmuel S., Stephen A. Smith and Robert B. Wilson, "Pricing a Product Line," *Journal of Business*, V. 57, No. 1, Pt. 2 (1984), pp. S73-S99.
- 22. Oren, Shmuel S., "Planar Quasi-Newton Methods for Unconstrained Saddlepoint Problems," *Journal of Optimization Theory and Applications*, V. 43, No. 2 (1984), pp. 167-204.
- 23. Borison, Adam B., Peter A. Morris and Shmuel S. Oren, "A State of the World Decomposition Approach to Dynamics and Uncertainty in Electric Utility Generation Expansion Planning," *Operations Research*, V. 32, No. 5 (1984), pp. 1052-1068.

- 24. Oren, Shmuel S. and Michael H. Rothkopf, "Market Dynamics Models for New Industrial Product Planning," *Marketing Science*, V. 3, No. 3 (1984), pp. 247-265.
- 25. Oren, Shmuel S., "Discussant's Comments on: Pricing Research in Marketing the State of the Art," *Journal of Business*, V. 57, No. 1, Pt. 2 (1984), pp. S61-S64.
- 26. Feinstein, Charles D. and Shmuel S. Oren, "A Newton Type Method for the Implicit Programming Problem," *Mathematics of Operations Research*, V. 9, No. 4 (1985) pp. 336-351.
- 27. Feinstein, Charles D. and Shmuel S. Oren, "A 'Funnel' Turnpike Theorem for Optimal Growth Problems with Discounting," *Journal of Economics, Dynamics and Control*, V. 9, pp. 25-39 (1985).
- 28. Dhebar, Anirudh and Shmuel S. Oren, "Optimal Dynamic Pricing for Expanding Networks," *Marketing Science*, V. 4, No. 4 (1985) pp. 336-351.
- 29. Oren, Shmuel S., Stephen A. Smith and Robert B. Wilson, "Capacity Pricing," *Econometrica*, V. 53, No. 3, (1985) pp. 545-567.
- 30. Oren, Shmuel S. and Stephen G. Powell, "Optimal Supply of a Depletable Resource with Backstop Technology: Heals Theorem Revisited," *Operations Research*, V. 33, No. 2 (1985), pp. 277-292.
- 31. Oren, Shmuel S. and Shao Hong Wan, "Optimal Strategic Petroleum Reserve Policies: A Steady State Analysis," *Management Science*, V. 32, No. 1, (1986) pp. 14-29.
- 32. Dhebar, Anirudh and Shmuel S. Oren, "Dynamic Nonlinear Pricing in Markets with Interdependent Demand," *Operations Research*, V. 34, No. 3, (1986) pp. 384-394.
- 33. Chao, Hung Po, Shmuel S. Oren, Stephen A. Smith and Robert B. Wilson, "Multi-Level Demand Subscription Pricing for Electric Power," *Energy Economics*, (1986) pp. 199-217.
- 34. Arbel, Ami and Shmuel S. Oren, "Generating Search Directions in Multiobjective Linear Programming using the Analytical Hierarchy Process," *Socio-Economic Planning Sciences*, V. 30, No. 6, (1986) pp. 369-373.
- 35. Oren, Shmuel S., Stephen A. Smith and Robert B. Wilson, "Multiproduct Pricing for Electric Power," *Energy Economics*, V. 9, No. 2 (1987), pp. 104-114.
- 36. Chao, Hung Po, Shmuel S. Oren, Stephen A. Smith and Robert B. Wilson, "Priority Service: Market Structure and Competition," *The Energy Journal*, Special Issue on Electricity Reliability, V. 9 (1988), pp. 77-104.

- 37. Schwartz, Rick G. and Shmuel S. Oren, "Using Analytic Hierarchies for Consumer Research and Market Modeling," *Mathematical Computer Modeling*, V. 11 (1988), pp. 266-271.
- 38. Oren, Shmuel S. and Rick G. Schwartz, "Diffusion of New Products in Risk Sensitive Markets Modeling," *Journal of Forecasting*, V. 7, No 4 (1988), pp. 273-287.
- 39. Powell, Stephen G. and Shmuel S. Oren, "The Transition to Nondepletable Energy: Social Planning and Market Models of Capacity Expansion," *Operations Research*, V. 37, No. 3 (1989), pp. 373-383.
- 40. Oren, Shmuel S. and Joseph A. Doucet, "Interruption Insurance for Generation and Distribution of Electric Power," *Journal of Regulatory Economics*, V. 2 (1990), pp. 5-19.
- 41. Oren, Shmuel S. and Stephen A. Smith, "Discussion of Paper by Rau and Hegazy," *IEEE Transaction on Power Systems*, V. 6, No. 2, (May 1991).
- 42. Oren, Shmuel S. and Stephen A. Smith, "Design and Management of Curtailable Electricity Service to Reduce Annual Peaks," *Operations Research*, V. 40, No. 2 (1992), pp. 213-238. Also in <u>Service Opportunities for Electric Utilities</u>: Proceedings of the EPRI/UERG Symposium, Held at UC Berkeley, September 1990. (Oren and Smith Ed.), Kluwer Publishing Co., (1993).
- 43. Kamien, Morton I., Shmuel S. Oren and Yair Tauman, "Licensing of Cost Reducing Innovation," *Journal of Mathematical Economics*, V. 21 (1992), pp. 483-508.
- 44. Doucet, Joseph A. and Shmuel S. Oren, "Onsite Backup Generation and Interruption Insurance for Electricity Distribution," *Energy Economics*, V. 12, No. 4 (1992), pp. 79-93.
- 45. Strauss, Todd P. and Shmuel S. Oren, "Priority Pricing of Interruptible Electric Power With an Early Notification Option," *The Energy Journal*, V. 14, No 2 (1993), pp.175-195.
- 46. Arbel, Ami and Shmuel S. Oren, "Generating Interior Search Directions for Multiobjective Linear Programming," *Journal of Multi-Criteria Decision Analysis*, V. 2 (1993), pp. 73-86.
- 47. Bushnell, James B. and Shmuel S. Oren, "Bidder Cost Revelation in Electric Power Auctions," *Journal of Regulatory Economics*, V. 6, No. 1 (1994), pp. 5-26.

- 48. Strauss, Todd P. and Shmuel S. Oren., "Priority Ordering in Interruptible Electric Power Service with Irreversible Early Notification," *Probability in Engineering and Information Sciences*, V 8, (1994) pp. 287-290.
- 49. Bushnell, James B. and Shmuel S. Oren, "Incentives Effects of Environmental Adders in Electric Power Auctions," *Energy Journal*, V. 15, No. 3 (1994) pp. 55-73.
- 50. Braden, David J. and Shmuel S. Oren, "Nonlinear Pricing to Produce Information," *Marketing Science*, Vol. 13, No. 3 (1994) pp. 310-326.
- 51. Svoboda, Alva J. and Shmuel S. Oren, "Integrating Price-based Resources in Short-term Scheduling of Electric Power Systems," *IEEE Transaction on Energy Conversion*, Vol. 9, No. 4, (1994) pp. 760-769.
- 52. Friedman, Eric J. and Shmuel S. Oren, "The Complexity of Resource Allocation and Price Mechanisms under Bounded Rationality," *Economic Theory*, Vol. 6, (1995) pp. 225-250.
- 53. Min, K. Jo and Shmuel S. Oren, "Economic Determination of Spec. Levels and Allocation Priorities of Semiconductor Products," *IIE Transactions*, Vol 27, (1995) pp. 321-331.
- 54. Oren, Shmuel S., Pablo T. Spiller, Pravin Varaiya and Felix Wu, "Nodal Prices and Transmission Rights: A Critical Appraisal," *Electricity Journal*, Vol. 8, No. 3, (April 1995) pp. 24-35.
- 55. Bushnell, James B. and Shmuel S. Oren, "Internal Auctions for Efficient Sourcing of Intermediate Products," *Journal of Operations Management*, " Vol. 12 No. 3-4 (June 1995) pp. 311-320.
- 56. Arbel Ami and Shmuel S. Oren, "Using Approximate Gradients in Developing an Interactive Interior Primal-Dual Multiobjective Linear Programming Algorithm", European Journal of Operational Research Vol. 89 (1996) pp. 202-211
- 57. Wu, Felix, Pravin Variya, Pablo T. Spiller and Shmuel S. Oren, "Folk Theorems on Transmission Open Access: Proofs and Counter Examples", *Journal of Regulatory Economics*, Vol. 10, (July 1996), pp. 5-23
- 58. Oren Shmuel S., "Economic Inefficiency of Passive Transmission Rights in Congested Electricity Systems with Competitive Generation", *Energy Journal*, Vol. 18, No.1 (1997) pp. 63-83.

- 59. Johnson B. Raymond, Shmuel S. Oren, Alva J. Svoboda, "Equity and Efficiency of Unit Commitment in Competitive Electricity Markets.", *Utilities Policy*, Vol. 6. No. 1, (1997) pp.9-19
- 60. Tseng Chung-Li, Shmuel S. Oren, Alva J. Svoboda, Raymond B. Johnson, "A Unit Decommitment Method in Power System Scheduling," *Electrical Power & Energy Systems*, Vol. 19, No. 6, (1997) pp. 357-365
- 61. Oren Shmuel S. "Passive Transmission Rights Will Not Do The Job", *Electricity Journal*, Vol. 10, No. 5, (June 1997) pp. 22-33.
- 62. Bushnell James B. and Shmuel S. Oren, "Transmission Pricing in California's Proposed Electricity market", *Utilities Policy*, Vol. 6, No. 3 (1997) pp. 237-244.
- 63. Tseng Cung-Li, Shmuel S. Oren, Alva J. Svoboda and Raymond B. Johnson, "Price Based Adaptive Spinning Reserves Requirements in Power System Scheduling", *Electrical Power and Energy Systems*, 21 (1999), pp. 137-145
- 64. Tseng Cung-Li, Shmuel S. Oren, Carol S. Chang, Chao-an Li, Alva J. Svoboda and Raymond B. Johnson, "A Transmission-Constrained Unit Commitment Method in Power System Scheduling", *Decision Support Systems*, 24 (1999), pp. 297-310 also in <u>Proceeding of the 31st Hawaii International Conference on Systems Sciences</u>, **Best Paper Award Winner** (January 1998)
- 65. Elmaghrabi Wedad and Shmuel S. Oren, "Efficiency of Multi-Unit Electricity Auctions", *Energy Journal*, 20, (1999) 4, pp. 89-115. Also in <u>Proceedings of the IAEE Conference</u>, San Francisco, California, (September 1997) pp. 458-462.
- 66. Ugarte Armando and Shmuel Oren "Coordination of Internal Supply Chains in Vertically Integrated High-tech Manufacturing Organizations (HTMOs)" *International Journal of Production* V 67 (2000) pp. 235-252
- 67. Tseng Cung-Li, Chao-an Li, and Shmuel S. Oren, "Solving Unit Commitment by a Unit decommitment Method", *Journal of Optimization Theory and* vol. 105, no. 3, June 2000
- 68. Oren Shmuel S., "Integrating real and financial options in demand-side electricity contracts", *Decision Support Systems*, V 30, (2001) 279-288 Also in <u>Proceedings of the 32nd Hawaii International Conference on Systems Sciences</u>, Maui, Hawaii (January, 1999)
- 69. Chao, Hung-po, Stephen Peck, Shmuel Oren and Robert Wilson, "Flow-based Transmission Rights and Congestion Management", *Electricity Journal*, (October, 2000)

- 70. Deng, Shijie and Shmuel S. Oren. "Priority Network Access Pricing for Electric Power *Journal of Regulatory Economics*, Vol 19, No. 3, (2001) 239-270.
- Kamat, Rajnish and Shmuel S. Oren. "Exotic Options for Interruptible Electricity Supply Contracts" *Journal of Operations Research* (accepted for publication February 2001)
- 72. Kamat, Rajnish and Shmuel S. Oren. "Rational Buyer Meets Rational Seller: Reserves Markets Equilibrium Under Alternative Auction Design, *Journal of Regulatory Economics* (Accepted for publication May 2001)

B. Conference and Symposium Proceedings and Book Chapters:

- 1. Oren, Shmuel S. and David G. Luenberger, "The Self-Scaling Variable Metric Algorithm," <u>Proceeding of the 5th Hawaii Conference on System Science</u> (January 1972).
- 2. Oren, Shmuel S., "Self-Scaling Variable Metric Algorithms without Line-Search for Unconstrained Minimization," Proceedings of the Joint Automatic Control Conference, Columbus, Ohio (June 1973).
- 3. Oren, Shmuel S., "A Mathematical Model of Computer Assisted Document Creation," in Information Systems, COIN IV, (J. Tou, ed.), Plenum Publishing Corp. (1974), pp. 387-401.
- 4. Oren, Shmuel S., "A Combined Variable Metric-Conjugate Gradient Algorithm for a Class of Large Scale Unconstrained Minimization Problems," in Optimization Techniques: Part 2 (J. Stoer, ed.), Springer-Verlag (1978), pp. 97-115.
- 5. Oren, Shmuel S., "Quasi-Newton Algorithms: Approaches and Motivations," Proceedings of the IEEE Conference on Decision and Control, San Diego, CA (Dec 1973).
- 6. Oren, Shmuel S. and Michael H. Rothkopf, "Optimal Bidding in Sequential Auctions," Proceedings of the IEEE Conference on Decision and Control, Phoenix, AZ (November 1974).
- 7. Oren, Shmuel S., Michael H. Rothkopf and Richard D. Smallwood, "Evaluating a New Market: A Forecasting System for Nonimpact Computer Printers," Proceedings of the First ORSA/TIMS Special Interest Conference on Market Measurement and Analysis, Stanford University (June 1980).
- 8. Oren, Shmuel S. and Stephen A. Smith, "Nonlinear Pricing and Network Externalities in Telecommunications," Proceedings of the 6th International Conference on Computer Communications, London, U.K. (September 1982).

- Chao, Hung Po, Shmuel S. Oren, Stephen A. Smith and Robert B. Wilson, "Priority Service: Managing Risk by Unbundling Electric Power Service," Proceedings of the XIII Energy Technology Conference, Washington, D.C., pp. 1610-1618 (March 1986).
- 10. Arbel, Ami and Shmuel S. Oren, "A Priority Based Interactive Multicriteria Optimization Algorithm," in Lecture Notes in Economics and Mathematical System Theory, Springer-Verlag, V. 285 (Part I) pp. 163-171, (1987) (Proceedings of the VII-th International Conference on Multiple Criteria Decision Making held in Kyoto, Japan, Aug. 1986).
- 11. Schwartz, Rick G., Shmuel S. Oren, Charles A. Dennis and Robert F. Debusk, "Measuring and Responding to Consumer Preferences for Medical Products and Services," Proceedings of the 1987 Annual Healthcare Systems Conference held in Las Vegas, Nevada (February 1987). (Best paper award).
- 12. Schwartz, Rick G. and Shmuel S. Oren, "Using Analytic Hierarchies for Consumer Research and Market Modeling," in Proceedings of the Sixth Int'l Conference on Mathematical Modeling in Science and Technology," St. Louis, MO., pp. 229-240, (August 1987).
- 13. Min, K. Jo and Shmuel S. Oren, "Optimal Pricing of Allocation Priority and Spec. Level With Multiple Customer Groups," Proceedings of the 1993 NSF Design and Manufacturing Systems Conference, V. 2 (1993), pp. 1799-1808.
- 14. Bushnell, James B. and Shmuel S. Oren, "Two-dimensional Auctions for Efficient Franchising of Independent Power Generation" <u>Proceedings of the 29th Annual Conference of the Operational Research Society of New Zealand</u>, Auckland University, New Zealand, (August 1993).
- 15. Min, K. Jo and Shmuel S. Oren, "Optimal Pricing of Allocation Priority and Spec. Level With Multiple Customer Groups," <u>Proceedings of the 1994 NSF Design and Manufacturing Systems Conference</u>, V. 3 (1994), pp. 351-352.
- 16. Oren Shmuel S. "The Role of Financial Instruments in a Competitive Electricity Market" in <u>Proceedings of the 1996 EPRI Conference on Innovative Approaches to Electricity Pricing</u>, (March 1996) pp. 7:1-15.
- 17. Oren Shmuel S., "Economic Foundation of Unbundling and Product Differentiation with Application to Electric Power" in <u>Proceedings of the NSF Conference on Unbundled Power Quality Services in the Electricity Power Industry</u>, Key-west, Florida, (November 1997) pp. 138-143
- 18. Oren Shmuel S., Alva J. Svoboda and Raymond B. Johnson, "Volatility of Unit Commitment in Competitive Electricity Markets," in Proceedings of the 30th

<u>Hawaii International Conference on Systems Sciences</u>, (January 1997) pp. 594-601

- 19. Oren Shmuel S. and Dennis Ray, "Services in an Unbundled and Open Electric Services Market Place" In <u>The Virtual Utility: Accounting, Technology & Competitive Aspects of the Emerging Industry</u>, (S. Awerbach and A. Preston Ed.), Kluwer Academic Publishers (1997) pp. 249-274.
- 20. Deng Shi-jie and Shmuel S. Oren, "Priority Network Access Pricing for Electric Power," In <u>Proceedings of the Bulk Power Systems Dynamics and Control Conference IV Restructuring</u>, Santorini, Greece, August 24-28, (1998). Also in <u>Proceedings of the POWER Conference</u>, <u>University of California Energy Institute</u>, Berkeley, California (March, 1998)
- 21. Oren Shmuel S., "Transmission Pricing and Congestion Management", <u>Proceedings of the EPRI Conference on Innovative Pricing</u>, Washington DC, (June 17-19, 1998)
- 22. Oren Shmuel S. "Authority and Responsibility of The ISO: Objectives, Options and Tradeoffs", In <u>Designing Competitive Electricity Markets</u>, Chao and Huntington ed., Kluwer Academic Publishers, Boston. (1999).
- 23. Oren Shmuel S. Contributor to: "Unlocking the Benefits of Restructuring: A Blueprint for Transmission" by Shimon Awerbuch, Leonard Hyman and Andrew Vesey, Public Utilities Reports Inc., (Nov. 1999.)
- 24. Oren Shmuel S., "Capacity Payments and Generation Adequacy in Competitive Electricity Markets", in Proceedings of SEPOPE IIV Conference, Curitiba, Brazil May 22-26, 2000.
- 25. Oren Shmuel S., "Design of Ancillary Service Markets", Proceeding of the 34th Hawaii International Conference on Systems Sciences HICSS 34. Maui, Hawaii, January 5-8, 2001.

C. Books

1. Oren, Shmuel S. and Stephen A. Smith, (Editors) "Service Opportunities for Electric Utilities: Creating Differentiated Products," Kluwer Academic Publishers, Boston (1993).

II. NON-REFEREED PUBLICATIONS

A. Technical Reports, Working Papers, Comments:

- Oren, Shmuel S. "The Correspondence Principle in Viscoelastic Stress Analysis,"
 M. Sc. Thesis, Dept. of Materials Engineering, Technion University, Haifa, Israel (in Hebrew) (July 1969).
- 2. Oren, Shmuel S. "Self-Scaling Variable Metric Algorithms for Unconstrained Minimization," Ph.D. Thesis, Dept of Engrg-Economics Systems, Stanford University, Stanford, CA (1972).
- 3. Allan, Dan, Shmuel S. Oren et. al, "A Nationwide Communication System for the Hearing Impaired: Strategies Toward Commercial Implementation," Final Report, Project 3288, SRI International, Menlo Park, California (October 1981).
- 4. Oren, Shmuel S., Stephen A. Smith and Robert B. Wilson, "Priority Service: Unbundling the Quality Attributes of Electric Power," EPRI Report EA-4871 (Nov. 1986).
- 5. Oren, Shmuel S., Stephen A. Smith and Robert B. Wilson, "Selected Papers on Priority Service Methods," EPRI Report P-5350, (August 1987).
- Oren, Shmuel S., "Product Differentiation in Service Industries," working paper presented at the First Annual Conference on Pricing, New York, NY (December 1987)
- 7. Oren, Shmuel S., Stephen A. Smith and Robert B. Wilson, "Service Design in The Electric Power Industry," EPRI Report P-6543, (1990).
- 8. Letter to the Editor, Wall Street Journal, (April 21, 1997)
- 9. Interview in "Electricity's Big Bang", Public Utilities Fortnightly, (January 1, 1998)
- 10. Shmuel Oren "It takes One Counterexample to Disprove a Theory", *Electricity Journal*, (10) pp. 95-98, (October 1997)
- 11. Oren, Shmuel S. and Andrew M. Ross. "Economic Congestion Relief Across Multiple Regions Requires Tradable Physical Flow-gate Rights" POWER Report PWP-076, University of California Energy Institute (May 2000)
- 12. Oren, Shmuel S. "Review of MAE rules for the Brazilian wholesale electricity market", Report to ANEEL The Brazilian Electricity Regulatory Agency (June 15, 2000)
- 13. Wilson, Ami, J. Kahn and Shmuel Oren, "Targeting Interventions to Prevent Human Immunodeficiency Virus (HIV) in Injection drug Users (IDUs), Working Paper, (August 2000)

- 14. Shmuel S. Oren, "Report to the Public Utility Commission of Texas on the ERCOT Protocols in Docket No. 23220", February 9, 2001
- 15. Oren Shmuel S. and Pablo Spiller, "Wild Prices Out West: What Can Be Done", Public Utilities Fortnightly, November 1, 2000, pp. 58-61.
- 16. J. Rabaey, E Arans, C. Dedespeil, A. Gadgill, D Masserschmidt, W. Nazaroff, K. Pister, S. Oren "Smart Energy Distribution and Consumption: Information Technology as an Enabling Force", CITRIS White Paper, University of California at Berkeley (May 2001)
- 17. Deng, Shijie and Shmuel Oren, "Incorporating Operational Characteristics and Startup Costs in Option-Based Valuation of Power Generation Capacity", Working Paper (August, 2001)

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

| Defects in the images include but are not limited to the items checked: |
|---|
| ☐ BLACK BORDERS |
| ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES |
| ☐ FADED TEXT OR DRAWING |
| ☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING |
| ☐ SKEWED/SLANTED IMAGES |
| COLOR OR BLACK AND WHITE PHOTOGRAPHS |
| GRAY SCALE DOCUMENTS |
| ☐ LINES OR MARKS ON ORIGINAL DOCUMENT |
| REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY |
| OTHER. |

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.